

Amendments to the Claims:

Please amend the claims as indicated.

1. (Currently Amended) A global on-demand management apparatus for user control of a system resource on a grid computing system, the apparatus comprising:

a storage device storing executable code;

a processor executing the executable code, the executable code comprising

a global user input module receiving ~~allowing a user to input a~~ global parameter control request, the global parameter control request specifying default performance parameters for a plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation parameter, a client backup recoverability parameter, a client packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client increasing an allocation of a performance resource and corresponding to a performance parameter for the performance resource stored in a profile in a memory device of the grid computing system;

a global parameter module dynamically updating the performance parameters for each client performance resource according to the global parameter control request during a concurrent grid system operation; ~~and~~
a client user input module receiving a user client parameter control request, the client parameter control request specifying first performance parameters for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter; and
a client allocation module allocating the first client performance resource to the grid computing system with the first performance parameters during the concurrent grid system operation in response to the client parameter control request.
~~a global reservation module reserving the performance resource with the updated performance parameter increasing the allocation of the performance resource for the grid computing operation.~~

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Currently Amended) The apparatus of claim 1, the global reservation module further terminating the reservation of the first client performance resource in response to a client reclamation operation, the client reclamation operation reclaiming the first client performance

resource and making the first client performance resource unavailable to the grid computing system.

7. (Currently Amended) The apparatus of claim 6, the global reservation module further reserving another client performance resource for the grid computing operation, wherein the other client performance resource is the same type of performance resource as the reclaimed first client performance resource.

8. (Previously Presented) The apparatus of claim 1, the executable code further comprising a global profile management module storing a network profile, the network profile comprising a network performance parameter of a network performance resource available to the grid computing system.

9. (Currently Amended) The apparatus of claim 1, the executable code further comprising a global profile management module storing a global client profile, the global client profile descriptive of the default ~~global client~~ performance ~~resource~~ parameters.

10. (Currently Amended) The apparatus of claim 1, the executable code further comprising a global profile management module storing a plurality of client profiles, each of the plurality of client profiles comprising ~~the client~~ performance parameters of each ~~a~~ client performance resource available to the grid computing system.

11. (Currently Amended) The apparatus of claim 10, the executable code further comprising a global profile synchronization module synchronizing one of the stored client profiles with the ~~a~~ local client profile stored on each ~~a~~ client performance resource.

12. (Currently Amended) The apparatus of claim 1, the executable code further comprising a global profile management module storing a plurality of profile histories, each of the plurality of profile histories comprising a history of a client performance parameter resource.

13. (Currently Amended) The apparatus of claim 12, the global profile management module further communicating one of the plurality of profile histories to a subscription manager, the subscription manager ~~configured to calculating~~ a client subscription fee based at least in part on the one of the plurality of profile histories.

14. (Currently Amended) A local on-demand management apparatus for user control of a system resource on a grid computing system, the apparatus comprising:

a storage device storing executable code;

a processor executing the executable code, the executable code comprising

a ~~global client~~ user input module ~~receiving~~ allowing a user ~~to input a global client~~ parameter control request, the global client parameter control request specifying default performance parameters for a plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation parameter, a client backup recoverability parameter, a client packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to

the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client~~increasing an allocation of a client performance resource corresponding to a client performance parameter for the client performance resource of the grid computing system;~~

a ~~global client~~ parameter module dynamically updating the client performance parameters for each client performance resource according to the global client parameter control request during a concurrent grid system operation;

a client user input module receiving a user client parameter control request, the client parameter control request specifying first performance parameters for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter;

a client allocation module allocating the first client performance resource to the grid computing system with the first performance parameters~~increased allocation~~ during the concurrent grid system operation in response to the client parameter control request;

a client profile management module storing a client profile in a memory device, the client profile comprising the client performance parameters; and

a client profile synchronization module synchronizing the client performance parameters with one of a plurality of client profiles stored on a global on-demand apparatus during the grid system operation.

15. (Canceled)

16. (Currently Amended) The apparatus of claim 14, the executable code further comprising a client reclamation module reclaiming the first client performance resource and making the first client performance resource unavailable to the grid computing system in response to a client reclamation operation and wherein the client user input module receives the client parameter control request from the global on-demand apparatus.

17. (Canceled)

18. (Canceled)

19. (Currently Amended) A system for user control of a system resource on a grid computing system, the system comprising:

a local on-demand management apparatus connected to the grid computing system, the local on-demand apparatus having local access to and control of a plurality of client performance resources;

a global on-demand management apparatus connected to the grid computing system, the global on-demand apparatus ~~configured to communicate~~ configured to communicate with the local on-demand apparatus;

a storage device storing executable code;

a processor executing the executable code, the executable code comprising

a global user input module receiving allowing a user to input a global parameter control request, the global parameter control request specifying default

performance parameters for the plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation parameter, a client backup recoverability parameter, a client packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client~~increasing an allocation of the performance resource and corresponding to a performance parameter for the performance resource, the performance parameter stored in a profile in a memory device of the grid computing system;~~

a global parameter module dynamically updating the performance parameters for each client performance resource according to the global parameter control request during a concurrent grid system operation;

a client user input module receiving a user client parameter control request, the client parameter control request specifying first performance parameters

for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter; and

an client allocation module allocating the first client performance resource to the grid computing system with the first performance parameters during a concurrent grid system operation in response to the client parameter control request;

~~the global on-demand management apparatus further dynamically updating the performance parameter according to the parameter control request during the grid system operation; and~~

~~a reservation module reserving the performance resource with the updated performance parameter increasing the allocation of the performance resource for the grid computing operation.~~

20. (Currently Amended) The system of claim 19, the executable code further comprising a subscription manager determining a user fee associated with the local on-demand management apparatus, the user fee based ~~at least in part~~ on the allocation of the client performance resources to the grid computing system.

21. (Currently Amended) The system of claim 19, the executable code further comprising a subscription manager managing the allocated performance resource and controlling the level of service available to the local on-demand management apparatus, the level of service based ~~at least in part~~ on the allocation of the client performance resources to the grid computing system.

22. (Currently Amended) A method for user control of a system resource on a grid computing system, the method comprising:

~~receiving~~~~allowing a user to input~~, by use of a processor, a user global parameter control request, the global parameter control request specifying default performance parameters for a plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation parameter, a client backup recoverability parameter, a client packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client~~increasing an allocation of a performance resource and corresponding to a performance parameter for the performance resource stored in a profile in a memory device of the grid computing system;~~

dynamically updating the performance parameters for each client performance resource according to the global parameter control request during a concurrent grid system operation;~~and~~

receiving a user client parameter control request, the client parameter control request specifying first performance parameters for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter; and allocating the first client performance resource to the grid computing system with the first performance parameters during the concurrent grid system operation in response to the client parameter control request.

~~reserving the performance resource with the updated performance parameter increasing the allocation of the performance resource for the grid computing operation.~~

23. (Canceled)

24. (Currently Amended) The method of claim 22, wherein the method further comprises terminating the reservation of the first client performance resource in response to a client reclamation operation, the client reclamation operation reclaiming the first client performance resource and making the first client performance resource unavailable to the grid computing system.

25. (Currently Amended) A method for user control of a system resource on a grid computing system, the method comprising:

~~receiving~~allowing a user to input, by use of a processor, a user global parameter control request, the global parameter control request specifying default performance parameters for a plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation parameter, a client backup recoverability parameter, a client

packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client~~increasing an allocation of a performance resource and corresponding to a performance parameter for the performance resource of the grid computing system;~~

dynamically updating the performance parameters for each client performance resource according to the global parameter control request during a concurrent grid system operation;

receiving a user client parameter control request, the client parameter control request specifying first performance parameters for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter; and allocating the first client performance resource to the grid computing system with the first performance parameters during the concurrent grid system operation in response to the client parameter control request;

~~reserving the performance resource with the updated performance parameter increasing the allocation of the performance resource for the grid computing operation;~~

terminating the reservation of the first client performance resource in response to a client reclamation operation, the client reclamation operation reclaiming the first client performance resource and making the first client performance resource unavailable to the grid computing system;

reserving another client performance resource for the grid computing operation, wherein the other client performance resource is the same type of performance resource as the reclaimed client performance resource;

storing a network profile, the network profile comprising a network performance parameter of a network performance resource available to the grid computing system;

storing a global client profile in a memory device, the global client profile descriptive of a global client performance resource parameters;

storing a plurality of client profiles, each of the plurality of client profiles comprising a client performance parameters of a client performance resource available to the grid computing system; and

synchronizing ~~each one~~ of the stored client profiles with ~~each a~~ local client profile stored on ~~each a~~ client performance resource.

26. (Currently Amended) A memory device storing executable code executed by a processor that carries out a method for user control of a system resource on a grid computing system, the method comprising:

~~receiving~~allowing a user ~~to input a~~ global parameter control request, the global parameter control request specifying default performance parameters for a plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation

parameter, a client backup recoverability parameter, a client packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client
~~increasing an allocation of a performance resource and corresponding to a performance parameter for the performance resource of the grid computing system;~~

dynamically updating the performance parameter for each client performance resource according to the global parameter control request during a concurrent grid system operation; ~~and~~

receiving a user client parameter control request, the client parameter control request specifying first performance parameters for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter; and

allocating the first client performance resource to the grid computing system with the first performance parameters during the concurrent grid system operation in response to the client parameter control request.

~~reserving the performance resource with the updated performance parameter increasing the allocation of the performance resource for the grid computing operation.~~

27. (Currently Amended) The memory device of claim 26, ~~wherein the performance parameter is one of network accessibility, network bandwidth allocation, and grid allocation hierarchy, and the method further comprising:~~

storing a network profile, the network profile comprising a network performance parameter of a network performance resource available to the grid computing system;

storing a global client profile in a memory device, the global client profile descriptive of ~~thea default~~global client performance resource parameters;

storing a plurality of client profiles, each of the plurality of client profiles comprising ~~thea~~ client performance parameters of ~~eacha~~ client performance resource available to the grid computing system; and

synchronizing one of the stored client profiles with ~~thea~~ local client profile stored on ~~thea~~ client performance resource.

28. (Canceled)

29. (Currently Amended) The memory device of claim 26, wherein the method further comprises terminating the reservation of the first client performance resource in response to a client reclamation operation, the client reclamation operation reclaiming the first client performance resource and making the first client performance resource unavailable to the grid computing system.

30. (Currently Amended) The memory device of claim 29~~6~~, wherein the method further comprises reserving another client performance resource for the grid computing operation, wherein the other client performance resource is the same type of performance resource as the reclaimed first client performance resource.

31. (Previously Presented) The memory device of claim 26, wherein the method further comprises storing a network profile, the network profile comprising a network performance parameter of a network performance resource available to the grid computing system.

32. (Currently Amended) The memory device of claim 26, wherein the method further comprises storing a global client profile, the global client profile descriptive of ~~thea default~~global ~~client performance resource~~ parameters.

33. (Currently Amended) The memory device of claim 26, wherein the method further comprises storing a plurality of client profiles, each of the plurality of client profiles comprising ~~thea~~ client performance parameters of ~~eacha~~ each client performance resource available to the grid computing system.

34. (Currently Amended) The memory device of claim 26, wherein the method further comprises synchronizing ~~eachone~~ of the stored client profiles with ~~eacha~~ local client profile stored on ~~eacha~~ client performance resource.

35. (Currently Amended) The memory device of claim 26, wherein the method further comprises storing a plurality of profile histories, each of the plurality of profile histories comprising a history of a client performance ~~parameter~~-resource.

36. (Currently Amended) The memory device of claim 35, wherein the method further comprises communicating one of the plurality of profile histories to a subscription manager, the subscription manager ~~configured to calculating~~ a client subscription fee based at least in part on the one of the plurality of profile histories.

37. (Currently Amended) An apparatus for user control of a system resource on a grid computing system, the apparatus comprising:

a storage device storing executable code;

a processor executing the executable code, the executable code comprising

means for receiving ~~allowing a user to input a global~~ parameter control request, the global parameter control request specifying default performance parameters for a plurality of client performance resources, the default performance parameters comprising an accessibility parameter, a client bandwidth allocation parameter, a storage allocation parameter, a memory allocation parameter, a processor allocation parameter, a client backup recoverability parameter, a client packet proximity parameter, and a client backup proximity parameter, the accessibility parameter indicating an amount of time that each client performance resource is connected to the grid computing system, the client bandwidth allocation parameter indicating client bandwidth dedicated to the grid computing system, the storage allocation parameter indicating client performance resource storage allocated to the grid computing system, the memory allocation parameter indicating client performance resource memory allocated to the grid computing system, the processor allocation parameter indicating processing capability dedicated to the grid computing system, the client backup recoverability parameter indicating recoverability of data stored on each client performance resource, the client packet proximity parameter indicating a physical distance between client performance resources

storing backup data packets, and the client backup proximity parameter indicating a physical distance of each client performance resource to a source client~~increasing an allocation of a performance resource and corresponding to a performance parameter for the performance resource of the grid computing system;~~

means for dynamically updating the performance parameters for each client performance resource according to the global parameter control request during a concurrent grid system operation; ~~and~~

means for receiving a user client parameter control request, the client parameter control request specifying first performance parameters for a first client performance resource of the plurality of client performance resources, the performance parameters comprising the accessibility parameter, the client bandwidth allocation parameter, the storage allocation parameter, the memory allocation parameter, the processor allocation parameter, and the client backup recoverability parameter; and

means for allocating the first client performance resource to the grid computing system with the first performance parameters during the concurrent grid system operation in response to the client parameter control request.

~~means for reserving the performance resource with the updated performance parameter increasing the allocation of the performance resource for the grid computing operation.~~

38. (Currently Amended) The apparatus of claim 1, the apparatus further comprising:

~~a client user input module allowing the user to input a client parameter control request, the parameter control request corresponding to a client performance parameter of the grid computing system, the client performance parameter corresponding to the performance resource;~~

~~a client allocation module allocating the performance resource to the grid computing system during the concurrent grid system operation;~~

a client profile management module storing a client profile in a memory device, the client profile comprising the client performance parameters of the performance resource allocated to the grid computing system; and

a client profile synchronization module synchronizing the client performance parameters with the client profile stored on the global on-demand apparatus during the concurrent grid system operation, overriding the performance parameters.

39. (Canceled)

40. (Currently Amended) The system of claim 19, the local on-demand apparatus comprising:

~~a client user input module allowing the user to input a client parameter control request, the parameter control request corresponding to a client performance parameter of the grid computing system, the client performance parameter corresponding to the performance resource;~~

~~a client allocation module allocating the performance resource to the grid computing system during the concurrent grid system operation;~~

a client profile management module storing a client profile in a memory device, the client profile comprising the client performance parameters of the performance resource allocated to the grid computing system; and

a client profile synchronization module synchronizing the client performance parameters with the client profile stored on the global on-demand apparatus during the concurrent grid system operation, overriding the performance parameters.